**Tab. S7**: Male *Nasonia* cuticular hydrocarbons (CHCs) identifications and the corresponding QTL governing their variation between male hybrids obtained from crosses between *N. vitripennis* and *N. girauli* (Niehuis et al., 2011). Indicated are the retention indices (RI), compound identifications or possible configurations in case of ambiguities, chromosome number (Chr.), QTL position (pos.), confidence interval for the respective QTL position, ratios of the CHC compounds in parental males of the two species (percentages with standard deviations) and significance assessments comparing the two ratios (Benjamini Hochberg-corrected Mann-Whitney U tests).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RI | Compound identification / possible configurations | Chr. | QTL pos. | Confidence interval | NV ♂ ratio | NG ♂ ratio | Significance |
| 2900 | C29 | 3 | 70 | 59.7 - 92.1 | 0.98 ± 0.5 | 1.23 ± 0.36 | n.s. |
|  |  | 5 | 23 | 8 - 56 |  |  |  |
| 2942 | 7-MeC29 | 4 | 41 | 28 - 57 | 0.6 ± 0.31 | 0.13 ± 0.17 | 0.000462 |
| 2951 | 5-MeC29 | 3 | 92 | 86 - 92.1 | 0.37 ± 0.16 | 0.16 ± 0.13 | 0.011683 |
|  |  | 5 | 16 | 13–23 |  |  |  |
| 2982 | 15,17-DiMeC29 | 2 | 89.8 | 85 -  | 0.15 ± 0.07 | 0.01 ± 0.03 | 0.000184 |
| 3040 | 7-MeC30 | 1 | 33 | 20 - 45 | 0.33 ± 0.11 | 0.14 ± 0.1 | 0.001215 |
|  |  | 5 | 11 | 4–21 |  |  |  |
| 3049 | 5-MeC30 | 5 | 16 | 13 - 23 | 0.05 ± 0.03 | 0.01 ± 0.02 | n.s. |
| 3074 | 9-C31ene | 2 | 23 | 9 - 32 | 0.98 ± 0.73 | 0.08 ± 0.1 | n.s. |
|  |  | 3 | 16 | 0 -  |  |  |  |
|  |  | 3 | 81 | 73 - 83 |  |  |  |
|  |  | 4 | 47 | 41 - 49 |  |  |  |
| 3100 | C31 | 3 | 71 | 63 - 76 | 6.41 ± 1.54 | 13 ± 2.96 | < 0.0001 |
| 3131 | 9-; 11-; 13-; 15-MeC31 | 2 | 44.2 | 40 - 57 |  |  |  |
|  |  | 2 | 79 | 70 - 84 |  |  |  |
| 3141 | 7-MeC31 | 5 | 11 | 4 - 21 | 11.43 ± 1.11 | 10.78 ± 1.79 | n.s. |
| 3149 | 5-MeC31 | 2 | 46 | 5 - 64 | 4.42 ± 0.65 | 5.68 ± 0.81 | 0.00204 |
|  |  | 5 | 47 | 40 - 56 |  |  |  |
| 3158 | 11,15-; 11,17-; 11,21-DiMeC31 | 3 | 44 | 34 - 46 | 0.46 ± 0.13 | 0.24 ± 0.05 | 0.00204 |
|  |  | 5 | 47.6 | 37.7 - 57 |  |  |  |
| 3171 | 7,11-DiMeC31 | 1 | 73 | 67 - 88.1 | 3.73 ± 0.35 | 4.72 ± 0.74 | 0.000306 |
|  |  | 2 | 89.8 | 86 -  |  |  |  |
|  |  | 3 | 40 | 34 - 55 |  |  |  |
|  |  | 3 | 88 | 83 - 91.2 |  |  |  |
|  |  | 5 | 48 | 46 - 56 |  |  |  |
| 3177 | 3-MeC31 (+7,23-DiMeC31)  | 1 | 82 | 74 - 88.1 | 2.55 ± 0.55 | 1.44 ± 0.16 | < 0.0001 |
|  |  | 2 | 89.8 | 86 -  |  |  |  |
|  |  | 3 | 30 | 25 - 34 |  |  |  |
|  |  | 3 | 88 | 83 - 91.2 |  |  |  |
| 3187 | 7,25-DiMeC31  | 2 | 30 | 24 - 41 | 0.61 ± 0.18 | 0.19 ± 0.05 | < 0.0001 |
|  |  | 3 | 27 | 17 - 31 |  |  |  |
|  |  | 3 | 89 | 81 - 92.1 |  |  |  |
| 3192 | 3,25-DiMeC31 | 5 | 24 | 17 - 35 | 0.34 ± 0.09 | 0.48 ± 0.08 | 0.00174 |
| 3197 | 3,15-DiMeC31 | 1 | 73 | 27 - 91 | 0.22 ± 0.05 | 0.43 ± 0.12 | < 0.0001 |
|  |  | 2 | 86 | 74 - 89.8 |  |  |  |
|  |  | 5 | 35 | 27 - 52 |  |  |  |
| 3204 | 3,7-DiMeC31 | 1 | 79 | 72 - 90 | 0.81 ± 0.17 | 0.42 ± 0.06 | < 0.0001 |
|  |  | 3 | 33 | 27 - 44 |  |  |  |
|  |  | 3 | 90 | 87 - 91.2 |  |  |  |
| 3226 | 3,7,9-; 3,7,11-; 3,7,15-TriMeC31 | 2 | 85 | 81 - 89 | 0.16 ± 0.08 | 0.27 ± 0.09 | 0.025044 |
|  |  | 5 | 27 | 23 - 53 |  |  |  |
| 3234 | 6-MeC32 | 1 | 61 | 56 - 67 | 0.39 ± 0.05 | 0.51 ± 0.12 | n.s. |
|  |  | 2 | 87 | 82 - 89.8 |  |  |  |
|  |  | 4 | 71 | 58 - 81 |  |  |  |
|  |  | 5 | 58 | 51 - 65 |  |  |  |
| 3273 | 9-C33ene | 1 | 86 | 77 - 92 | 1.45 ± 0.27 | 0.16 ± 0.13 | < 0.0001 |
|  |  | 3 | 4 | 0 - 17 |  |  |  |
|  |  | 3 | 75 | 70 - 81 |  |  |  |
|  |  | 4 | 48 | 46 - 51 |  |  |  |
| 3281 | 7-C33ene | 3 | 17 | 2 - 24 | 0.96 ± 0.2 | 0.06 ± 0.1 | < 0.0001 |
|  |  | 3 | 77 | 74 - 82 |  |  |  |
|  |  | 4 | 49 | 48 - 53 |  |  |  |
|  |  | 4 | 87.6 | 84 -  |  |  |  |
| 3288 | 3-MeC32 | 2 | 89.8 | 77 -  | 0.12 ± 0.04 | 0.18 ± 0.09 |  |
| 3300 | C33 | 3 | 82 | 74 - 89 | 0.99 ± 0.25 | 1.38 ± 0.41 | n.s. |
| 3330 | 9-; 11-; 13-; 15-MeC33 | 1 | 56 | 51.6 - 59 | 3.97 ± 1.26 | 8.02 ± 0.92 | < 0.0001 |
|  |  | 2 | 79 | 73 - 84 |  |  |  |
|  |  | 4 | 74.5 | 60 - 82 |  |  |  |
| 3339 | 7-MeC33 | 5 | 47.6 | 26 - 56 | 2.93 ± 0.68 | 3.54 ± 0.8 | n.s. |
| 3355 | 11,15-; 11,23- 11,25-DiMeC33 | 1 | 48 | 46 - 54 | 0.66 ± 0.42 | 2.29 ± 0.64 | < 0.0001 |
|  |  | 2 | 49 | 47 - 54 |  |  |  |
|  |  | 2 | 89 | 85 - 89.8 |  |  |  |
|  |  | 5 | 50 | 47 -  |  |  |  |
| 3360 | 7,19-; 7,21-DiMeC33 | 1 | 54 | 48 - 57.1 | 1.68 ± 0.56 | 1.24 ± 0.21 | n.s. |
|  |  | 2 | 89.8 | 87 -  |  |  |  |
|  |  | 3 | 17 | 0 - 20.4 |  |  |  |
|  |  | 5 | 48 | 46 - 56 |  |  |  |
| 3370 | 7,23-DiMeC33 | 2 | 36 | 17 - 42 | 7.71 ± 1.21 | 3.24 ± 0.38 | < 0.0001 |
|  |  | 3 | 69 | 64 - 74 |  |  |  |
|  |  | 5 | 54 | 50 - 56 |  |  |  |
| 3405 | 5,9,11-; 5,9,15-TriMeC33 | 1 | 9 | 0 - 24 | 2.04 ± 0.68 | 0 | < 0.0001 |
|  |  | 1 | 79 | 73 - 89.9 |  |  |  |
|  |  | 2 | 66 | 49 - 84 |  |  |  |
|  |  | 5 | 47 | 22 - 59 |  |  |  |
| 3430 | 8,10-; 8,12-; 8,14-; 8,16-; 8,18-DiMeC34 | 1 | 10 | 0 - 25 | 0.92 ± 0.28 | 0.84 ± 0.21 | n.s. |
| 3453 | 3,7,11,15-TetraMeC33 | 1 | 53.4 | 48 - 58 | 1.57 ± 0.35 | 4 ± 0.71 | < 0.0001 |
|  |  | 3 | 28 | 20 - 57 |  |  |  |
| 3524 | 13-; 15-;17-MeC35 | 1 | 60 | 59 - 67 | 2.58 ± 0.44 | 3.34 ± 0.38 | 0.000636 |
|  |  | 2 | 89.8 | 87 -  |  |  |  |
|  |  | 3 | 46 | 35 - 56 |  |  |  |
| 3534 | 7-MeC35 | 1 | 74 | 63 - 86 | 0.77 ± 0.18 | 0.77 ± 0.12 | n.s. |
|  |  | 2 | 86 | 82 - 89.8 |  |  |  |
|  |  | 3 | 44.3 | 31 - 83 |  |  |  |
|  |  | 5 | 34 | 26 - 37 |  |  |  |
| 3549 | 11,17-; 11,19-; 11,21-; 11,23-; 13,17-; 13,19-; 13,21-; 13,17-; 13,19-; 13,21-;13,23-; 15,17-; 15,19-; 15,21-; 15,23-DiMeC35 | 1 | 54 | 49 - 80 | 3.08 ± 0.92 | 6.55 ± 0.86 | < 0.0001 |
|  |  | 5 | 51 | 39 - 57 |  |  |  |
| 3563 | 7,19-; 7,21-; 7,23-DiMeC35 | 1 | 12 | 2 - 23 | 7.07 ± 1.47 | 2.15 ± 0.28 | < 0.0001 |
|  |  | 5 | 46 | 39 - 57 |  |  |  |
| 3572 | 5,15-; 5,17-; 5,19-; 5,21-; 5,23-DiMeC35 | 1 | 12 | 1 - 29 | 5.21 ± 0.73 | 3.54 ± 0.53 | < 0.0001 |
|  |  | 2 | 88 | 83 - 89.8 |  |  |  |
| 3603 | 5,9,13-; 5,9,15-; 5,9,17-; 5,9,19-; 5,9,21-; 5,11,13-; 5,11,15-; 5,11,17-; 5,11,19-; 5,11,21-TriMeC35 | 1 | 13 | 1 - 23 | 1.65 ± 0.4 | 1.05 ± 0.33 | 0.00324 |
| 3721 | 13-; 15-; 17-; 19-MeC37 | 1 | 58 | 56 - 88 | 0.64 ± 0.23 | 0.9 ± 0.27 |  |
|  |  | 3 | 34 | 26 - 91 |  |  |  |
| 3745 | 11,19-; 11,21-; 11,23-; 11,25-; 13,19-; 13,21-; 13,23-; 15,19-; 15,21-; 15,23-DiMeC37 | 1 | 58 | 53.4 - 84 | 1.38 ± 0.46 | 2.13 ± 0.38 | 0.010146 |
|  |  | 3 | 29 | 23 - 35 |  |  |  |
|  |  | 5 | 48 | 41 - 57 |  |  |  |
| 3764 | 7,19-; 7,21-; 7,23-DiMeC37 | 1 | 48 | 47 - 50 | 2.39 ± 0.69 | 0.61 ± 0.16 | < 0.0001 |
|  |  | 2 | 66 | 63 - 84 |  |  |  |
|  |  | 5 | 52 | 42 - 59 |  |  |  |
| 3768 | 5,15-; 5,17-; 5,23-DiMeC37 | 3 | 31 | 18 - 65 | 1.42 ± 0.35 | 1.31 ± 0.28 | n.s. |
|  |  | 4 | 48.2 | 26 - 84 |  |  |  |
| 3779 | 7,15,17-; 7,15,19-; 7,15,23-; 7,19,17-; 7,19,19-; 7,19,23-TriMeC37 | 1 | 1 | 0 - 21 | 0.53 ± 0.36 | 0.03 ± 0.09 | 0.00016 |
|  |  | 2 | 74 | 66 - 82 |  |  |  |